[redacted] SC B030371, cy 5 of 5

JOINT MESSAGEFORM

SECURITY CLASSIFICATION [redacted]

SPACE BELOW RESERVED FOR COMMUNICATION CENTER

XLVII

PRECEDENCE	TYPE MSG (Check)			ACCOUNTING SYMBOL	ORIG. OR REFERS TO	CLASSIFICATION OF REFERENCE
ACTION	BOOK	MULTI	SINGLE			
INFO						

FROM:

6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

TO: SPACE SYSTEMS DIV LOSA CALIF
VWZD- [redacted] 1-8-199

SUBJECT: 8- HOUR LAUNCH FLASH REPORT

I. A PROGRAM 622A SATELLITE VEHICLE CONSISTING OF THOR BOOSTER NO. 347 AND AGENA B ORBITAL STAGE NO. 1131 WAS LAUNCHED ON THE FIRST ATTEMPT FROM VAFB COMPLEX 75-3 PAD 4 AT 1730:9.92 PDT ON JULY 27, 1962. THE PRIMARY LAUNCH OBJECTIVE, TO PLACE THE AGENA SATELLITE WITH PAYLOAD IN A NEAR-POLAR ORBIT, WAS ACCOMPLISHED. THE VTS RADAR PLOTBOARD INDICATED THE ASCENT TRAJECTORY TO BE NOMINAL THROUGH RADAR TRACK LOSS JUST SUBSEQUENT TO AGENA ENGINE CUTOFF. THE ORBITAL PERIOD ATTAINED APPEARS TO BE SLIGHTLY GREATER THAN NOMINAL, BASED ON FIRST PASS ACQUISITION AT KODI.

SPECIAL INSTRUCTIONS

By Authority of [redacted] Date 7 APR 1966

CLASSIFICATION CHANGED TO [redacted]

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS
DOD DIRECTIVE 5200.10

DATE [redacted] TIME [redacted]

MONTH YEAR

WRITER

SYMBOL

TYPED NAME AND TITLE (Signature, if required)

C. S. Waller, Lt. Col. USAF

PHONE 866-5831 | NR. 1 | NR. OF PAGES

SECURITY CLASSIFICATION [redacted]

RELEASER

SIGNATURE

TYPED (or stamped) NAME AND TITLE

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DD, FORM 1 MAY 55 173 REPLACES DD FORM 173, 1 OCT 49, WHICH WILL BE USED UNTIL EXHAUSTED

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FROM:

6595 AEROSPACE TEST WG VANDENBERG AFB, CALIF.

PRELIMINARY VALUES OF SIGNIFICANT LAUNCH EVENTS ARE:

LIFTOFF (1730:9.92 PDT)	ZERO
STEERING INITIATED	91.77 SEC
MECO (S1)	143.38 SEC
VECO	152.33 SEC
ENABLE D1 AND D2 (S2)	146.41 SEC
D1 ON	151.11 SEC
D1 OFF	154.13 SEC
D2 ON	154.26 SEC
D2 OFF	155.58 SEC
SEPARATION COMMAND (S3)	158.15 SEC
SEPARATION COMPLETE	160.70 SEC
ULLAGE ROCKET IGNITION	174.13 SEC
AGENA ENGINE IGNITION	187.16 SEC
AGENA THRUST ATTAINMENT (90 PER CENT PC)	188.38 SEC
AGENA BURNOUT (COMMANDED BY INTEGRATOR)	430.86 SEC
AGENA LINK 2 TELEMETRY FADE	486 SEC
VTS VERLORT RADAR FADE	446 SEC
VTS ACQUISITION BEACON FADE	486 SEC
VTS TELEMETRY DATA FADE (LINK 1)	486 SEC

SYMBOL	PAGE NR 2	NR OF PAGES	SECURITY CLASSIFICATION [redacted]	INITIALS

DD FORM 1 MAY 65 173-1

[redacted]

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JOINT MESSAGEFORM - CONTINUATION SHEET

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FROM:

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II. ALL BOOSTER SUBSYSTEMS PERFORMED SATISFACTORILY AND, IN RESPONSE TO GROUND GUIDANCE SYSTEM COMMANDS, PROVIDED THE REQUIRED COAST APOGEE CONDITIONS AND ATTITUDE [redacted] AT SEPARATION.

GROUND GUIDANCE SYSTEM DATA INDICATE THAT BOOSTER COAST APOGEE ALTITUDE WAS 106.46 NM (NOMINAL: 106.83 NM) AND THE VELOCITY WAS 10,078 FPS (NOMINAL: 10,074 FPS).

III. ALL AGENA VEHICLE SUBSYSTEMS PERFORMED SATISFACTORILY DURING LAUNCH TO PROVIDE THE PROPER TRAJECTORY CONDITIONS AT AGENA ENGINE SHUTDOWN AND NO SIGNIFICANT DISCREPANCIES WERE NOTED.

AT THE TIME OF SIGNAL FADE AT VTS, ALL VEHICLE SUBSYSTEMS WERE FUNCTIONING NORMALLY WITH AN ADEQUATE SUPPLY OF CONTROL GAS REMAINING AND THE ORBITAL TIMER WAS SET AT 5428 SEC (STEP 18), IN THE RESET-ON POSITION, IN THE INCREASE MODE, AND ALTERNATE RE-ENTRY DISARM STATE.

IV. THE AEROSPACE GROUND EQUIPMENT FUNCTIONED PROPERLY TO ACCOMPLISH BOOSTER AND ORBITAL STAGE PRE-LAUNCH CHECKOUT; HOWEVER, IN TASK 7 THE PAD WATER DELUGE SYSTEM FAILED WET AND FLOODED THE PAD WHEN A SOLENOID VALVE IN THE SYSTEM ACTUATED. THIS

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SOLENOID AND THE BATTERY WHICH SUPPLIES POWER TO THE SYSTEM WERE REPLACED. LMSC WIRING AND EQUIPMENT AT THE LAUNCHER BASE BECAME WET AND ALL AGENA CONTROL SYSTEM MONITORING FUNCTIONS WERE LOST. THE WIRING AND EQUIPMENT WAS DRIED WITH HOT AIR AND NORMAL OPERATION RESTORED.

V. THE COUNTDOWN WAS INITIATED AT 1000 PDT AND PROGRESSED TO LIFTOFF WITH NO HOLDS.

THE FOLLOWING TECHNICAL DIFFICULTIES WERE ENCOUNTERED:

A. THE PAD DELUGE SYSTEM FAILED WET.

B. THE ORBITAL TIMER FAILED TO START WHEN COMMANDED IN TASK 7. THE SECOND ATTEMPT WAS SUCCESSFUL.

PAD DAMAGE WAS NORMAL AND THE TURN AROUND SCHEDULE CAN BE MAINTAINED.

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